

UNITED STALAGE DEPARTMENT OF COMMERCE

Patent and Trademark Office

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Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATI	ATTORNEY DOCKET NO.	
09/164,392	09/30/98	KIM	D	334	33404/DBP/Y3	
			¬ [EXAMINER		
022930 LM02/0426 ' LM02/0426 ' HOWREY SIMON ARNOLD & WHITE LLP			L.A	NEAU, R		
30X 34				ART UNIT	PAPER NUMBER	
.299 PENNSYLVANIA AVENUE NW JASHINGTON DC 20004		JE NW	27	74	9	
		·	DATE	E MAILED: 04	/ /26/00	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

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Application No. 09/164,392

App.._.nt(s

DONG-GYU KIM

Examiner

Ronald Laneau

Group Art Unit 27.74



X Responsive to communication(s) filed on Sep 30, 1998	
☐ This action is FINAL .	
Since this application is in condition for allowance except for formal in accordance with the practice under Ex parte Quay/1935 C.D. 11;	
A shortened statutory period for response to this action is set to expire longer, from the mailing date of this communication. Failure to responsapplication to become abandoned. (35 U.S.C. § 133). Extensions of ti 37 CFR 1.136(a).	d within the period for response will cause the
Disposition of Claim	
X Claim(s) <u>1-16</u>	is/are pending in the applicat
Of the above, claim(s)	is/are withdrawn from consideration
Claim(s)	is/are allowed.
X Claim(s) <u>1-16</u>	is/are rejected.
☐ Claim(s)	
☐ Claims	
Application Papers	
See the attached Notice of Draftsperson's Patent Drawing Revie	
☐ The drawing(s) filed on is/are objected	
☐ The proposed drawing correction, filed on	is approveddisapproved.
☐ The specification is objected to by the Examiner.	
☐ The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. § 119	
Acknowledgement is made of a claim for foreign priority under 3	85 U.S.C. § 119(a)-(d).
	ority documents have been
🔀 received.	
received in Application No. (Series Code/Serial Number)	
received in this national stage application from the International	
*Certified copies not received:	
Acknowledgement is made of a claim for domestic priority unde	r 35 U.S.C. § 119(e).
Attachment(s)	
★ Notice of References Cited, PTO-892 ★ Notice Of References Cited Cite	_
X Information Disclosure Statement(s), PTO-1449, Paper No(s).	
☐ Interview Summary, PTO-413 ☑ Notice of Draftsperson's Patent Drawing Review, PTO-948	
☐ Notice of Informal Patent Application, PTO-152	
Notice of Informal Patent Application, 1 10-152	
SEE OFFICE ACTION ON THE F	OLLOWING PAGES

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by

another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title

before the invention thereof by the applicant for patent.

2. Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Kimura et al

(5,724,057).

As per claim 1, Kimura et al teach a method for driving a liquid crystal display. It has a

common electrode driving section and a pixel electrode comprising applying common voltage to

common electrodes (22, 20), applying data voltage and common voltage of a positive polarity and

a negative polarity to liquid crystal 18 as claimed (see column 9, lines 45-67).

As per claims 2, and 3, the pixel as taught by Kimura et al is inherently comprised of three

pixel which are a red pixel, a green pixel, and a blue pixel as claimed.

As per claims 4, and 5, the application of data voltages with the same polarity for the common

voltage is applied to the pixels in the same column as claimed.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the

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subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 6-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kimura et al (5,724,057).

As per claims 6, 11, and 12, Kimura et al teach a substrate, a plurality of gate lines (30) formed on the substrate, a plurality of data lines intersecting the gate lines (see figure 2), a plurality of pixels formed to regions defined by the data lines and the gate lines (see figure 2), and wherein the polarity of the data voltage for the common voltage inverts. Kimura et al does not teach inversion in units of groups comprising of two or more pixels and having a connecting member formed between the gate lines or connecting the common lines but it would have been obvious to one of ordinary skilled in the art to utilize the pixels in groups because it would prevent pixel defects by utilizing them in group than singularly.

As per claims 7, and 8, see rejection of claim 6. the pixel as taught by Kimura et al is inherently comprised of three pixel which are a red pixel, a green pixel, and a blue pixel as claimed.

As per claims 9, and 10, see rejection of claim 6. It is common or well known in the art to specify a certain amount of distance between a first data line and a second data line because there has to be some distances if one wants to differentiate the data lines.

As per claims 13-15, Kimura et al teach a common voltage which is applied through a common voltage on the substrate. As far as the connecting member, see rejection of claim 6.

As per claim 16, Kimura et al definitely teach a pixel comprising a column of red pixel, a column of green pixels and a column of blue pixels as claimed.

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5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Okumura (5,107,353), Kimura et al (5,892,494), Kim (5,923,310), Chimura et al (5,654,733).

6. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 308-9051, (for formal communications; please mark "EXPEDITED PROCEDURE")

Or:

(703) 305-308-6606, (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronald Laneau whose telephone number is (703) 305-3973. The examiner can normally be reached on Monday-Friday from 8:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Ronald Laneau

April 22, 2000

RICHARD A. HJERPE SUPERVISORY PATENT EXAMINER GROUP 2700